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Doran R. Pace, Patent Attorney



INFORMATION DISCLOSURE
STATEMENT
Examining Group 1653
Patent Application
Docket No. UF-326XC1
Serial No. 10/602,395

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : Not yet assigned
Art Unit : 1653
Applicants : Charles L. Guy, Fatma Kaplan, Dong Yul Sung
Serial No. : 10/602,395
Filed : June 23, 2003
Conf. No. : 1698
For : Materials and Methods for Providing Plants with Increased Resistance to Environmental Stress

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§1.97 AND 1.98

Sir:

In accordance with 37 CFR §1.56, the references listed on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. A copy of each cited reference is enclosed.

It is respectfully requested that the references cited on the attached form PTO/SB/08 be considered in the examination of the subject application and that their consideration be made of record.

Applicants respectfully assert that the substantive provisions of 37 CFR §§1.97 and 1.98 are met by the foregoing statement.

Respectfully submitted,



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DRP/tl

Attachments: Form PTO/SB/08; copies of references cited therein.



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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Sheet	1	of	3	Application Number	10/602,395
				Filing Date	June 23, 2003
				First Named Inventor	Charles L. Guy
				Art Unit	1653
				Examiner Name	Not yet assigned
				Attorney Docket Number	UF-326XC1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
U1	US- 5,762,057		07-09-1998	The United States of America	All
U2	US- 5,106,739		04-21-1992	Calgene, Inc.	All
U3	US- 5,688,684		11-18-1997	Sapporo Breweries Ltd.	All
U4	US- 5,863,784		01-26-1999	Sapporo Breweries Ltd.	All
U5	US- 5,082,781		01-21-1992	Shigezo Ueda	All
U6	US- 5,625,136		04-29-1997	Ciba-Geigy Corporation	All
U7	US- 5,034,322		07-23-1991	Monsanto Company	All
U8	US- 5,447,858		09-05-1995	Mycogen Plant Sciences, Inc.	All
U9	US- 6,489,540		12-03-2002	Advanced Technologies (Cambridge) Limited	All
U10	US- 5,460,952		10-24-1995	National Science Council of R.O.C.	All
U11	US- 5,498,832		03-12-1996	A/S De Danske Spritfabrikker	All
U12	US- 5,712,112		01-27-1998	National Science Council of R.O.C.	All
U13	US- 5,912,413		06-15-1999	Iowa State University Research Foundation, Inc.	All
U14	US- 6,469,230		10-22-2002	Plant Bioscience Limited	All
U15	US- 6,268,548		07-31-2001	Board of Regents of University of Nebraska	All
U16	US- 5,296,462		03-22-1994	Board of Trustees Operating Michigan State University	All
U17	US- 5,356,816		10-18-1994	Board of Trustees Operating Michigan State University	All
U18	US-				

FOREIGN PATENT DOCUMENTS

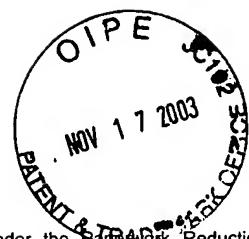
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
F1						
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¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet	2	of	3	Application Number	10/602,395
				Filing Date	June 23, 2003
				First Named Inventor	Charles L. Guy
				Group Art Unit	1653
				Examiner Name	Not yet assigned
				Attorney Docket Number	UF-326XC1

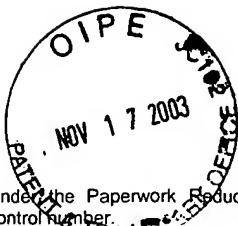
NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
/	R1	AVIGAD, G., DEY, P.M. "Carbohydrate Metabolism: Storage Carbohydrates" <i>Plant Biochemistry</i> 1997, P.M Dey and J. B. Harborne, eds. (Academic Press).		
/	R2	BECK, E., ZIEGLER, P. "Biosynthesis and Degradation of Starch in Higher Plants" <i>Annu. Rev. Physiol. Plant Mol. Biol.</i> 1989, Vol. 40, pp. 95-117.		
/	R3	DATTA, R. et al. "Stress-Mediated Enhancement of β -Amylase Activity in Pearl Millet and Maize Leaves is Dependent on Light" <i>J. Plant Physiol.</i> 1999, Vol. 154, pp. 657-664.		
/	R4	DREIER, W. et al. "Light- and Stress-Dependent Enhancement of Amyloytic Activities in White and Green Barley Leaves: β -Amylases are Stress-Induced Proteins" <i>J. Plant Physiol.</i> 1995, Vol. 145, pp. 342-348.		
/	R5	FOWLER, S., THOMASOW, M.F. "Arabidopsis Transcriptome Profiling Indicates that Multiple Regulatory Pathways are Activated during Cold Acclimation in Addition to the CBF Cold Response Pathway" <i>The Plant Cell</i> 2002, Vol. 14, pp. 1675-1690.		
/	R6	GILMOUR, S.J. et al. "Overexpression of the Arabidopsis CBF3 Transcriptional Activator Mimics Multiple Biochemical Changes Associated with Cold Acclimation" <i>Plant Physiol.</i> 2000, Vol. 124, pp. 1854-1865.		
/	R7	IWASAKI et al. "The Dehydration-Inducible Rd17 (Cor47) (Gene and its Promoter Region In <i>Arabidopsis thaliana</i> " (Accession No. AB004872) (Plant Register PGR97-156) <i>Plant Physiol.</i> 1997, Vol. 115, p. 1287.		
/	R8	KREPS, J.A. et al. "Transcriptome Changes for Arabidopsis in Response to Salt, Osmotic, and Cold Stress" <i>Plant Physiol.</i> 2002, Vol. 130, pp. 2129-2141.		
/	R9	LAO et al. "An <i>Arabidopsis</i> gene encoding a chloroplast-targeted β -amylase" <i>The Plant Journal</i> 1999, Vol. 5, No. 5, pp. 519-527.		
/	R10	MIKAMI B. et al. "The Crystal Structure of the Sevenfold Mutant of Barley β -Amylase with Increased Thermostability at 2.5 Å Resolution" <i>J. Mol. Biol.</i> 1999, Vol. 285, pp. 1235-1243.		
/	R11	MONROE, J.D., PREISS, J. "Purification of a β -Amylase that Accumulates in <i>Arabidopsis thaliana</i> Mutants Defective in Starch Metabolism" <i>Plant Physiol.</i> 1990, Vol. 94, pp. 1033-1039.		
/	R12	NIELSEN, T.H. et al. "A β -Amylase in Potato Tubers is Induced by Storage at Low Temperature" <i>Plant Physiol.</i> 1997, Vol. 113, pp. 503-510.		
/	R13	SANTARIUS, K.A. "The Protective Effect of Sugars on Chloroplast Membranes during Temperature and Water Stress and its Relationship to Frost, Desiccation and Heat Resistance" <i>Planta</i> 1973, Vol. 113, pp. 105-114.		

Examiner Signature	Date Considered
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

3

of

3

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NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
/	R14	SANTARIUS, K.A. "Freezing of Isolated Thylakoid Membranes in Complex Media" <i>Cryobiology</i> 1996, Vol. 33, pp. 118-126.
/	R15	SCHEIDIG, A. et al. "Downregulation of a chloroplast-targeted β -amylase leads to a starch-excess phenotype in leaves" <i>The Plant Journal</i> 2002, Vol. 30, No. 5, pp. 581-591.
/	R16	SEKI, M. et al. "Monitoring the Expression Pattern of 1300 Arabidopsis Genes under Drought and Cold Stresses by Using a Full-Length cDNA Microarray" <i>The Plant Cell</i> 2001, Vol. 13, pp. 61-72.
/	R17	SEKI, M. et al. "Monitoring the expression profiles of 7000 Arabidopsis genes under drought, cold and high-salinity stresses using a full-length cDNA microarray" <i>The Plant Journal</i> 2002, Vol. 31, No. 3, pp. 279-292.
/	R18	SINGER, M.A., LINDQUIST, S. "Thermotolerance in <i>Saccharomyces cerevisiae</i> : the Yin and Yang of trehalose" <i>Trends Biotechnol.</i> 1998, Vol. 16, pp. 460-468.
/	R19	TODAKA, D. et al. "Water stress enhances β -amylase activity in cucumber cotyledons" <i>Journal of Experimental Botany</i> 2000, Vol. 51, No. 345, pp. 739-745.
/	R20	WANG, Q. et al. "Identification and Characterization of a Phloem-Specific β -Amylase ¹ " <i>Plant Physiol.</i> 1995, Vol. 109, pp. 743-750.
/	R21	YANCEY, P.H. "Living with Water Stress: Evolution of Osmolyte Systems" <i>Science</i> 1982, Vol. 217, p. 1214-1222.
V	R22	YOSHIGI, N. et al. "Construction of a Plasmid Used for the Expression of a Sevenfold-Mutant Barley β -Amylase with Increased Thermostability in <i>Escherichia coli</i> and Properties of the Sevenfold-Mutant β -Amylase" <i>J. Biochem.</i> 1995, Vol. 118, pp. 562-567.
	R23	
	R24	
	R25	
	R26	

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